

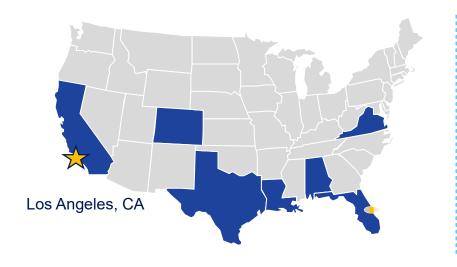


Boeing 702X

702X & PDI serving Alaska

Q&A / Discussion

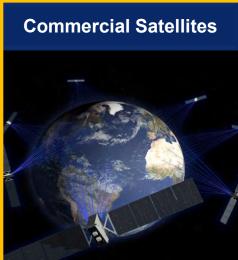
Boeing Space and Launch Overview



7
DOMESTIC
LOCATIONS

Commercial Satellites Headquarter in Los Angeles, CA











CST-100 Starliner



Boeing Communications Satellite History 1963: Syncom Intelsat IV A Intelsat II 1966 1 analog TV channel Intelsat I (Early Bird) 1998 Astra 2A 2003 Galaxy XIII TACSAT 1998 SatMex 5 IVA 2003 AsiaSat 4 1972 Anik A 702 GEM 1998 PAS-6B 1969 1975 2006 MEASAT-3 1974 Westar 1999 AsiaSat 3S 2000 Thurava-1 **Today: O3b mPOWER** 2009 1976 Palapa A 1999 Astra 1H 2003 Thuraya-2 Marisat 601 Mobile 2008 Thuraya-3 1999 DIRECTV 1-R 1976 1995 AMSC 160,000+ HD TV Channels 2000 Galaxy XR 2010 SkyTerra-1 1996 MSAT 2015 Centenario 2015 Morelos 3 376HP 1996 MEASAT 1, 2 1997 Thor II Comstar 1989 JCSAT (393) 1998 Thor III 1990 SBS 6 (393) 1998 Sirius 3 2012 IS-22 Bonum 1 2000 Astra 2D 2012 IS-21 2002 2012 IS-27 Astra 3A 2003 e-BIRD 2015 ABS-3A Intelsat V 376/376L/376W 2015 E115WB 1989 1980 SBS 1 2015 ABS-2A 1981 SBS 2 702HP 2015 E117WB 1982 Westar IV, V 2015 IS-29e (EPIC) 1987 Palapa-B2P 1999 Galaxy XI 1982 Anik C3, D1 1987 Aussat A3 2000 PAS-1R 2016 IS-33e (EPIC) 1982 SBS 3 F2 1988 SBS 5 F5 2000 Anik F1 2017 SES-15 2008 DIRECTV-11.12 1995 MSAT-2 1983 Anik C2 1989 BSB 2001 XM-1, -2 2017 IS-35e (EPIC) 1994 Galaxy I-R 1995 DIRECTV-3 2013 Inmarsat-5 F1 1983 Palapa B1 1990 AsiaSat 1 2017 IS-37e (EPIC) 2002 Galaxy IIIC 1994 APSTAR 1 2015 Inmarsat F2, F3 1992 Optus B1 1995 PAS-4 1983 Telstar 3A 1990 Palapa B2R 2018 H3e (EPIC) 2004 Anik F2 1994 Brasilsat B1 (376W) 2016 Inmarsat F4 1992 Galaxy VII 1995 JCSAT-3 1999 JCSAT 6 1983 Galaxy I. II 1990 BSB-2 2005 XM-3 202X ViaSat-3 1994 THAICOM 2 (376L) 2016 SES-9 1993 Astra 1C 1995 Astra 1E 2000 TDRS H 1984 SBS 4 F4 1990 Galaxy VI 2005 Spaceway F1, F2 2019 AMOS-17 1995 Brasilsat B2 (376W) 2017 ViaSat-2 1995 Galaxy III-R 2002 TDRS I, J 1993 Galaxy IV 1984 Telstar 3C 1992 Galaxy V 2019 JCSAT-18 2006 XM-4 1996 Galaxy XI 202X WGS - 11 1993 Solidaridad 1 1996 Palapa C1 2002 JCSAT 8 1984 Galaxy III 1992 Palapa-B4 2007 DIRECTV-10 202X ViaSat - 3 1996 APSTAR 1A 1996 PAS-3R 2006 GOES-N 1993 THAICOM 1 (3767L) 1997 BSAT-1a 1993 DIRECTV-1 1984 Anik D2 2007 Spaceway F3 202X ViaSat - 3 1994 PAS-2 1996 Astra 1F 2009 GOES-O 1985 Brasilsat A 202X ViaSat - 3 1998 Brasilsat B3 (376W) 1994 DIRECTV-2 1996 MSAT-1 2010 GOES-P 1985 Anik C1 202X O3b mPOWER

Continuing to innovate the world's most advanced communications satellites

2013 TDRS K

2014 TDRS L

202X SES 20/21

1996 Palapa-C2

1997 JCSAT-4.-5

1997 Superbird C 2017 TDRS M

1994 Optus B3

1994 Astra 1D

1994 Solidaridad 2

1998 BSAT-1b

2000 Brasilsat B4 (376W)

1985 Morelos A, B

1985 AUSSAT A1, A2

1985 Telstar 3B



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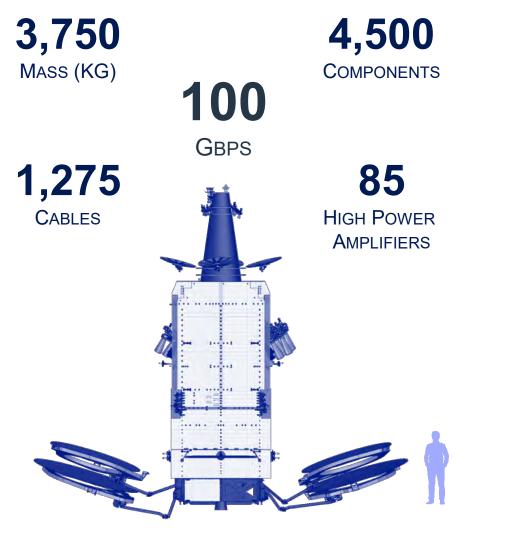
High throughput broadband connectivity

Based on in-production satellite program (low-risk)

Ability to adapt to specific user demand

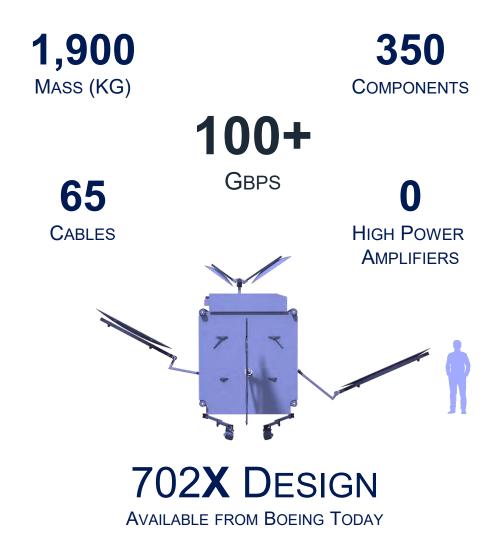
Reduced schedules due to standardized design







LAUNCHED IN 2019



702X provides capacity to Alaska with less complexity compared to traditional satellites



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How Boeing 702X can serve Alaska

Boeing's GEO High-Throughput Satellite capability can be a core component of Alaska's strategy for rural broadband infrastructure

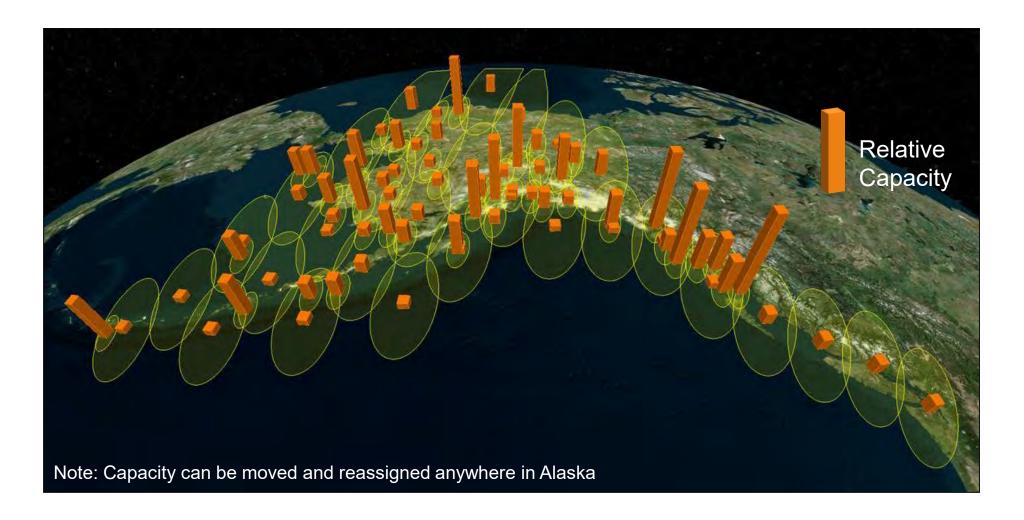
Dedicated, **24/7 coverage** for Alaska from Pacific Dataport's 154 deg West Orbital slot

Connectivity to 100% of Alaska Native Regions

Lowest cost and quickest to market compared to fiber and LEO alternatives

Fifteen+ year satellite lifespan for long-term sustainability

Broadband Capacity Assigned Based on Rural Alaska Population



Capacity sufficient to meet all rural residential broadband needs



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